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(54) Title: METHOD AND APPARATUS FOR PERFORMING MULTIPLE SIMULTANEOUS MANIPULATIONS OF BIOMOLECULES IN A TWO-DIMENSIONAL ARRAY

(57) Abstract: This invention relates to methods and apparatus for performing multiple simultaneous manipulations of biomolecules in a two-dimensional array, such as a gel, membrane, tissue biopsy, etc. Such manipulations particularly include assays and nucleic acid amplification protocols.

WO 2004/048928 A3

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/37208

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68

US CL : 435/6

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 435/91.2, 435/7.1, 435/4, 436/518

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2004/0053326 A1 (EMMERT-BUCK et al.) 18 March 2004 (18.03.2004), page 2 col. 1, examples 2, 3 and 5.	1-24
Y	US 2004/0081987 A1 (KNEZEVIC et al.) 29 April 2004 (29.04.2004), pages 3-5, example 11.	1-24
Y	US 2004/0081979 A1 (KNEZEVIC et al.) 29 April 2004 (29.04.2004), Fig 11, page 7 col. 2, page 14, page 15 col. 2.	1-24

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

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"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

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"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/37208

**Continuation of B. FIELDS SEARCHED Item 3:**

**CAPLUS, MEDLINE**

Layered expression scanning, transcriptome, array